

# REPORT ON MACHINERY

No. 712

SAT. DEC. 14. 1912

Received at London Office

Date of writing Report \_\_\_\_\_ When handed in at Local Office \_\_\_\_\_ 19 \_\_\_\_\_ Port of Boston

No. in Survey held at Quincy Mass. Date, First Survey February 23 Last Survey Nov 16 1912  
 Reg. Book. \_\_\_\_\_ (Number of Visits \_\_\_\_\_)

14 Suffer on the s/s "NELSON" Tons { Gross 4746.54  
 Net 2797

Master John A. Thompson Built at Quincy Mass. By whom built Jore River Shipbuilding Co. When built 1912

Engines made at Quincy By whom made Jore River Shipbuilding Co. when made 1912

Boilers made at Buffalo N.Y. By whom made Lake Erie Boiler Works when made 1912

Registered Horse Power 448 Owners Cuba Distilling Company Port belonging to New York

Nom. Horse Power as per Section 28 448 Is Refrigerating Machinery fitted for cargo purposes \_\_\_\_\_ Is Electric Light fitted yes.

ENGINES, &c.—Description of Engines Vertical triple expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25-41-68 Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft 14.16 Material of Forged steel.  
 as per rule 14.16 as fitted 14.75 screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight

in the propeller boss yes If the liner is in more than one length are the joints burned \_\_\_\_\_ If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive \_\_\_\_\_ If two

liners are fitted, is the shaft lapped or protected between the liners \_\_\_\_\_ Length of stern bush 5'-0"

Dia. of Tunnel shaft 12.91 Dia. of Crank shaft journals 13.55 Dia. of Crank pin 14 Size of Crank webs 9 1/2 x 2 1/2 Dia. of thrust shaft under

collars 13.75 Dia. of screw 16.9 Pitch of Screw 17.6 No. of Blades 4 State whether moveable yes Total surface 92.30

No. of Feed pumps 2 Diameter of ditto 7 x 10 Stroke 10 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 20 Can one be overhauled while the other is at work yes

No. of Donkey Engines Two Sizes of Pumps 10 x 12 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Seven - 3 1/2 In Holds, &c. Inspector and 1-2 1/2 Bunkers Two - 3 1/2

No. of Bilge Injections 1 sizes 8 Connected to \_\_\_\_\_ to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 4

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible \_\_\_\_\_

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above \_\_\_\_\_ the deep water line yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes

What pipes are carried through the bunkers Steam to deck machinery How are they protected Covered with iron casing

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

Dates of examination of completion of fitting of Sea Connections August 5 of Stern Tube August 5 Screw shaft and Propeller August 6

Is the Screw Shaft Tunnel watertight \_\_\_\_\_ Is it fitted with a watertight door \_\_\_\_\_ worked from \_\_\_\_\_

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Report of boilers enclosed

Total Heating Surface of Boilers \_\_\_\_\_ Is Forced Draft fitted yes No. and Description of Boilers 3 Scotch Boilers

Working Pressure 190 lbs Tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate 16

Can each boiler be worked separately yes Area of fire grate in each boiler \_\_\_\_\_ No. and Description of Safety Valves to

each boiler 3 duplex spring Area of each valve 70 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 20 Mean dia. of boilers \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates

Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Are the shell plates welded or flanged \_\_\_\_\_ Descrip. of riveting: cir. seams

long. seams \_\_\_\_\_ Diameter of rivet holes in long. seams \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Lap of plates or width of butt straps

Per centages of strength of longitudinal joint \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Size of manhole in shell

Size of compensating ring \_\_\_\_\_ No. and Description of Furnaces in each boiler \_\_\_\_\_ Material \_\_\_\_\_ Outside diameter

Length of plain part \_\_\_\_\_ Thickness of plates \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ No. of strengthening rings

Working pressure of furnace by the rules \_\_\_\_\_ Combustion chamber plates: Material \_\_\_\_\_ Thickness: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ Bottom

Pitch of stays to ditto: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ If stays are fitted with nuts or riveted heads \_\_\_\_\_ Working pressure by rules

Material of stays \_\_\_\_\_ Diameter at smallest part \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ End plates in steam space:

Material \_\_\_\_\_ Thickness \_\_\_\_\_ Pitch of stays \_\_\_\_\_ How are stays secured \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Material of stays

Diameter at smallest part \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Material of Front plates at bottom

Thickness \_\_\_\_\_ Material of Lower back plate \_\_\_\_\_ Thickness \_\_\_\_\_ Greatest pitch of stays \_\_\_\_\_ Working pressure of plate by rules

Diameter of tubes \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Material of tube plates \_\_\_\_\_ Thickness: Front \_\_\_\_\_ Back \_\_\_\_\_ Mean pitch of stays

Pitch across wide water spaces \_\_\_\_\_ Working pressures by rules \_\_\_\_\_ Girders to Chamber tops: Material \_\_\_\_\_ Depth and

thickness of girder at centre \_\_\_\_\_ Length as per rule \_\_\_\_\_ Distance apart \_\_\_\_\_ Number and pitch of stays in each

Working pressure by rules \_\_\_\_\_ Superheater or Steam chest; how connected to boiler \_\_\_\_\_ Can the superheater be shut off and the boiler worked

separately \_\_\_\_\_ Diameter \_\_\_\_\_ Length \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet

holes \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Diameter of flue \_\_\_\_\_ Material of flue plates \_\_\_\_\_ Thickness

If stiffened with rings \_\_\_\_\_ Distance between rings \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ End plates: Thickness \_\_\_\_\_ How stayed

Working pressure of end plates \_\_\_\_\_ Area of safety valves to superheater \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_



